Western Canadian Industrial Projects Directory

1984

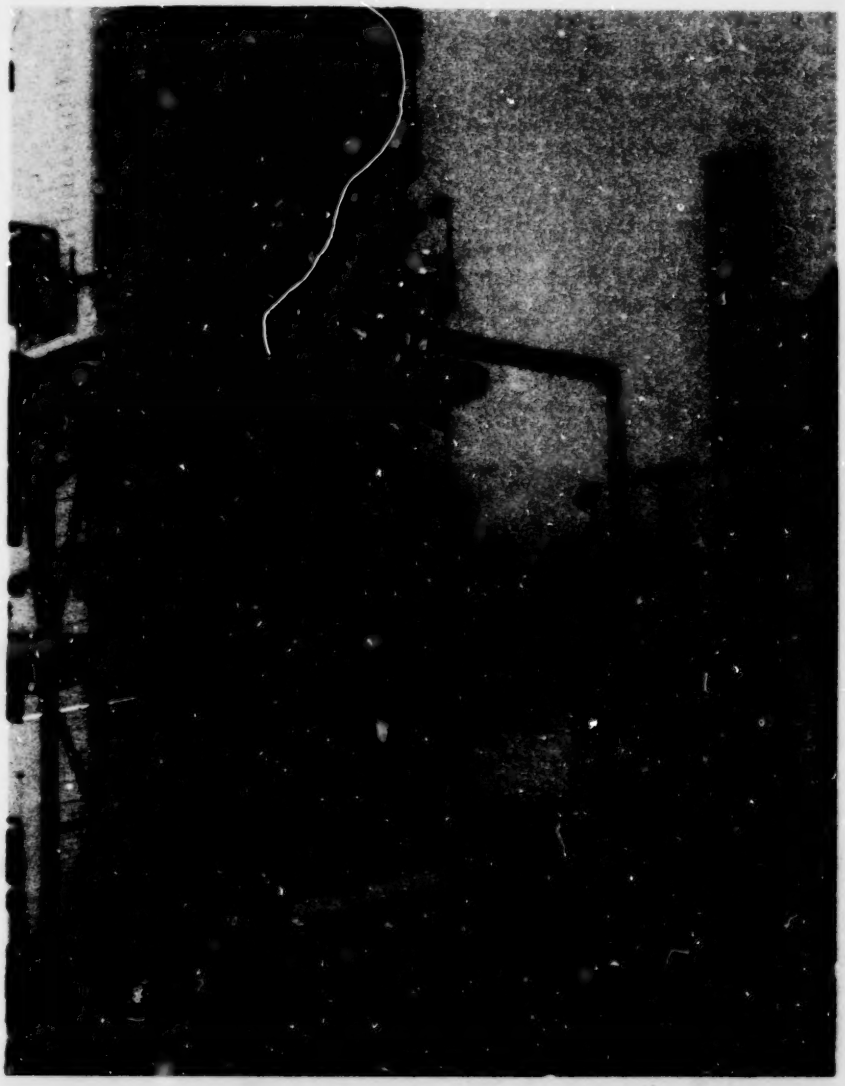
Executive Summary

It is acknowledged that effective economic development decisions are the byproduct of timely and accurate information. The more current and reliable the information is, the more successful the development decision will be. The purpose of this publication is twofold. First, this report satisfies the need to produce a current and reliable list of major industrial projects that will impact on the Edmonton Service Area over the next ten years. Second, the report demonstrates the importance of the Edmonton Service Area activity relative to the rest of Western Canada and Canada as a whole.

The Edmonton Service Area is defined by the Federal Government as Nortnern Alberta, Northeastern British Columbia, the Yukon, Western Northwest Territories and the Saskatchewan-Lloydminster Region. A more exact definition of the area is illustrated on the map on page two.

The project inventory list contained in this report is derived from "Dalcor Innoventures Ltd., Capital Project Inventory Edmonton Service Area November 17, 1983". The report covers all projects currently underway or considered for construction prior to 1994. The inventory is divided into the following six categories: **Electric Generation and Transmission, Forest Products, Hydrocarbons and Petrochemicals, Mining, Transportation and Others.** Additional information on the projects identified can be obtained from either Dalcor Innoventures Ltd. or the Edmonton Economic Development Authority. The project information is shown in millions of 1983 dollars and the project dates represent the approximate period of construction.

The Alberta economy has traditionally been fueled by the primary resource sectors. Edmonton's proximity to Alberta's resource base makes it a logical location for new or expanded business ventures in Western Canada. In Western Canada, over $115 billion of industrial projects are either currently underway or are seriously being considered for construction prior to 1994. Of this total, over $62 billion (or 54.1%) is located in the Edmonton Service Area. The Edmonton service area contains most of the producing oil fields, gas fields, coal deposits and the petrochemical complexes. It logically follows that the Edmonton area provides the greatest potential for industrial development in Western Canada.



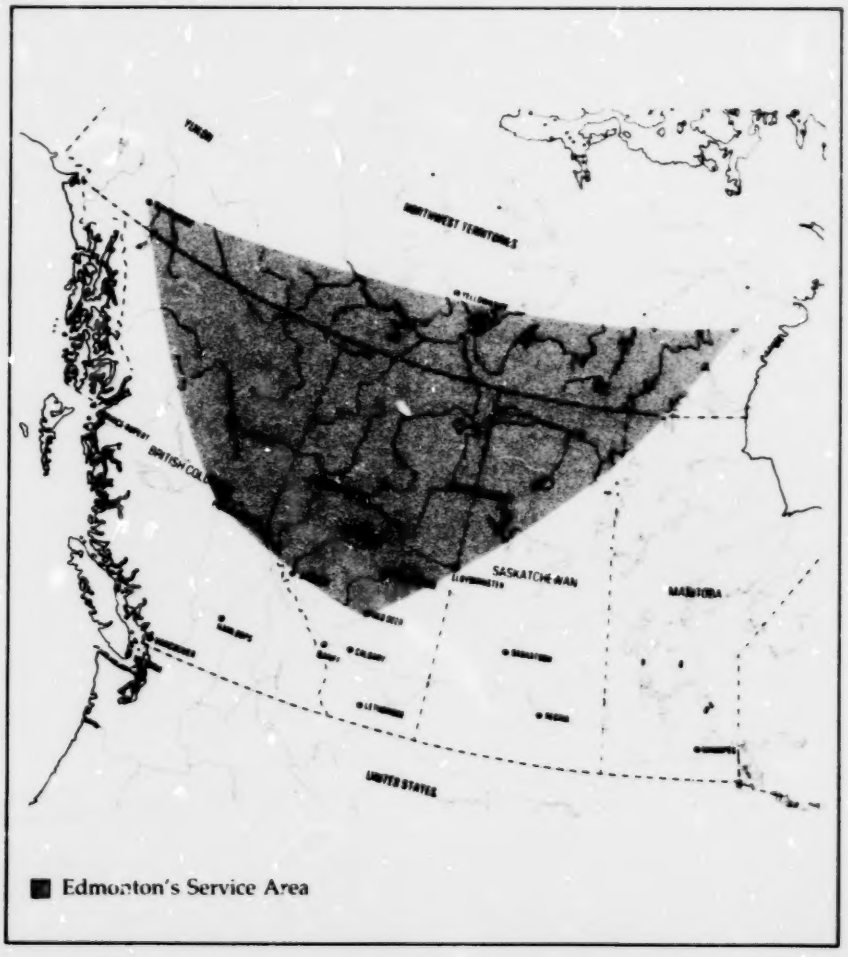
Edmonton's service area is projected to receive over $62 billion in industrial projected between now and 1994.

Over $33,195 million of hydrocarbon and petrochemical projects are either currently underway or are forecast to occur prior to 1994 in the Edmonton Service Area. This represents 70.1% of the Western Canadian total and is strong testimony to the investment potential in the Edmonton area not only for developers of major projects but to individuals and firms providing goods and services to these principals. The map included in this publication illustrates geographically how Edmonton's location will give it a decided advantage in terms of supplying goods and services to the Western Canadian industrial projects planned.

The accompanying summary table compares the Edmonton Service Area industrial projects with those of seven other major Western Canadian service areas.

Industrial Projects Summary
(in millions of 1983 $)

Project Category	Edmonton Service Area	Western Canada	Edmonton % of Western Canada
Electric Generation & Transmission	**$5,921**	$19,214	30.8
Forest Products	**1,426**	2,670	53.4
Hydrocarbons & Petrochemicals	**33,195**	47,304	70.1
Mining	**2,988**	15,969	18.7
Transportation	**18,218**	29,373	62.0
Other Industrial	**596**	596	—
Total	**$62,344**	$115,126	54.1



Distribution of Industrial Projects by Service Area
(in millions of 1983 $)

	Electric Generation & Transmission	Forest Products	Hydro-carbons & Petro-chemicals	Mining	Transport	Totals
Winnipeg (Manitoba, Eastern NWT)	$2,266	$237		$734	$322	$3,559
Regina (Saskatchewan south of Yorkton, Southwest corner of Manitoba)	1,593		2,215	295	99	4,202
Saskatoon (Saskatchewan north of Yorkton)	899	175	43	3,562		4,679
Edmonton (Alta north of Red Deer, B.C. Peace River region, Western NWT, Saskatchewan-Lloydminster area)	**5,921**	**1,426**	**33,195**	**2,988**	**18,218**	**62,344***
Calgary (Alberta south of Red Deer, B.C. East Kootenay region)	876		1,221	3,075	797	5,969
Kelowna Kamloops (B.C. Revelstoke, West Kootenay, Hat Creek & Highland Valley regions)	4,688	437		1,894	5,448	12,467
Vancouver (B.C. lower mainland, north coast & northern interior regions, including Northeast Coal Belt)	2,971	395	8,479	3,227	4,326	19,398
Victoria (B.C. Vancouver Island)			2,151	194	163	2,508
Totals	$19,214	$2,670	$47,304	$15,969	$29,373	$115,126*
Edmonton Service Area (% of total sector)	30.8%	53.4%	70.1%	18.7%	62.0%	
Edmonton Service Area as a % of total Western Canada						54.1%

* The total value of projects for the Edmonton service area includes $596 million of projects listed in Table 1 as "Other Industrial". The $596 million is also accounted for in the total value of projects for Western Canada ($115,126 million).

Edmonton's service area accounts for 54.1% of all industrial projects identified for western Canada.

The following lists provide detailed information concerning projects in the Edmonton Service Area. It should be noted that in some categories the Edmonton Service area totals more than Alberta. The reason for this is that the Edmonton Service Area covers some projects outside of Alberta.

Electric Generation and Transmission
(in millions of 1983 $)

Sponsor	Project Description	Location	Cost	Construction Period
City of Edmonton	Genessee #1 - 375 MW	Genessee	$347	82-87
City of Edmonton	Genessee #2 - 375 MW	Genessee	333	83-88
Transalta Utilities	Keephills Unit #2	Genessee	330	79-84
Transalta Utilities	Keephills #3 & 4	Genessee	708	91-97
Alta Gov't.	Slave River Hydro	Slave River	2,682	87-93
Northern Can Pwr	20 MW Hydro Project	Whitehorse	52	82-84
B.C. Hydro	Site C 900 MW	Fort St. John	1,469	87-92
Total Edmonton Service Area			**$5,921**	
Total Alberta			$5,284	
Total Western Canada			$19,214	

Forest Products
(in millions of 1983 $)

Sponsor	Project Description	Location	Cost	Construction Period
Makin Pulp & Paper	Chemi-Mech P/P Mill	W Red Deer	$77	85-90
Blue Ridge Lumber	Sawmill	N Alberta	27	84-85
BC Forest Products	Pulp Paper Mill	White Court	502	85-87
ATCO	Forest Products Comp	Brazeau Reg	782	85-90
Cathton Holdings	Sawmill	Rocky Mtn. House	38	85-85
Total Edmonton Service Area			**$1,426**	
Total Alberta			$1,426	
Total Western Canada			$2,670	

Hydrocarbons and Petrochemicals
(in millions of 1983 $)

Sponsor	Project Description	Location	Cost	Construction Period
Alberta Energy Co.	Styrene/Benzene Plt	Bruderheim	$767	85-88

continued

Sponsor	Project Description	Location	Cost	Construction Period
Alberta Energy Co.	Ethylene Plt 700KTPY	Gibbons	826	89-92
Alberta Energy Co.	Heavy Oil Project	Ipiatik Lk	150	85-87
Alberta Energy Co.	10,000BPD Heavy Oil	Ipiatik Lk	300	89-93
Alberta Gas Ethylene	Ethylene Plant #2	Joffre	700	81-84
Alberta Gas Ethylene	Ethylene Plant #3	Joffre	611	87-90
Alta Oil Sands Tech	Extraction Test Centre	Fort McMurray	90	84-87
Amoco Canada Ltd.	49 KM3 D Sour Gas Plt	Big Lake	20	84-86
Amoco Canada Ltd.	Nipisi Gilwood Mi Fl	Nipisi	40	84-86
ATCO	Norman Wells Area Exp	Norman Wells	70	83-88
ATCO	Salt Storage Cavern	Fort Sask	34	82-83
ATCO	Ethane NGL Extract Plt	Devon	141	84-86
Angus Chemical	Nitroparrafin Plant	Undecided		85-88
BP Exploration	In Situ Oilsands Pilot	Wolf Lake	215	83-85
Canada City Service	Manatokan Steam Project	Undecided	17	85-86
Canadian Hunter	Ethane Extraction	Elmworth	48	84-85
Canstar Oil Sands	Oilsands Mining 100KBPD	Fort McMurray	6,972	86-90
Celanese Canada Inc.	Acetic Acid Vinyl Ac	Edmonton	519	85-87
Chevron Standard Ltd.	Ethane Extr to Kaybob	Swan Hills	36	84-86
Chevron Standard Ltd.	Mitsue EOR Project	Mitsue	40	85-87
Chevron Standard Ltd.	Gas Fraction Plt Expan	Fort Sask	94	84-86
Chiettain Development	Methanol Plt Methacoal	Hinton Area	960	85-87
CIL Inc.	Polyethylene Exp	Edmonton	1,133	84-86
Deminex Alta Energy	Oilsands Pilot Steam	Primrose Lk	48	82-85
Dome Petroleum Ltd.	Carbon Diox Recov Plt	Wabamun	224	85-88
Dome Petroleum Ltd.	Brazeau Gas Plant	Brazeau	70	84-87
Dome Petroleum Ltd.	Beaufort Exploration	Beaufort	1,040	82-87
Dow Chemicals Can Inc.	Exp Chloralkali Plt	Fort Sask	130	86-87
Dow Chemicals Can Inc.	Polyethylene Plant	Fort Sask	70	84-87
Dow Chemicals Can Inc.	Polyethylene Plt Exp	Fort Sask	197	87-90
Electric Furnace Co.	Ethylene Glycol Plt	Prentiss	393	81-84
Esso/Home et al	Exploration Program	Beaufort	436	83-87
Esso Resources Can	19000 BPD Insitu Pr	Cold Lake	300	83-85
Esso Resources Can	Debottleneck Pilot Pr	Cold Lake	39	83-84
Esso Resources Can	19000 BPD Phs 3&4	Cold Lake	300	87-90
Esso Resources Can	19000 BPD Phs 5&6	Cold Lake	300	89-92

continued

Sponsor	Project Description	Location	Cost	Construction Period
Esso Resources Can	Ethane EOR Project	Swan Hills	95	84-86
Esso Resources Can	Gas Plt Mod/Ethane Ext	Swan Hills	70	83-85
Esso Resources Can	Gas Processing Plant	Nordegg	60	84-86
Gulf Canada Res	Experimental Oilsands	Nr Fort McMurray	131	82-87
Gulf Dome et al	Beaufort sea Oil Dev	Beaufort Sea	3,610	88-92
Gulf Canada Res et al	5 Well Exp Program	Beaufort Sea	424	83-87
Gulf Canada Resources	EOR Projects Various	various	118	85-87
Home	Swan Hills EOR Proj	Swan Hills	90	84-86
Husky Oil	Heavy Oil Upgrader	Lloydminster	1,020	84-87
Husky Oil	Heavy Oil Prodn Dev	Lloydminster	918	83-88
Husky Oil	Heavy Oil Develop	Lloydminster	670	83-88
Imperial Oil Ltd.	Refinery Expansion	Strathcona	318	81-84
Norcen Energy	BODO Fireflood Proj	Bodo Flood	75	86-90
Nova, An Alta Corp.	Polyethylene Plant	Joffre	470	82-84
Nova, An Alta Corp.	Linear Higher Olefins	Alberta	222	85-88
Peace River Fertiliz	Anhyrous Ammonia Plt	Kathleen	48	84-85
PetroCanada	PCEF Elec Preheat Proj	Surmont	131	90-95
PetroCanada	11 Well Expl Program	Grt Bear Lk	128	83-87
Shell Canada Resource	Gas Plant	Progress	70	83-84
Shell Canada Resource	35000 BPD Project	Peace River	2,145	86-90
Shell Canada Ltd.	Lin High Olefins Plt	Edmonton	495	85-88
Shell Canada Ltd.	Styrene Monomer Plt	Edmonton	365	81-84
Shell Canada Ltd.	Synthetic Crude Refin	Edmonton	787	81-84
Shell Canada Ltd.	Benzene Plant	Edmonton	372	81-84
Sulpetro	NGL Extraction Plant	Elmworth	264	84-85
Suncor Inc.	Oilsands Ob Removal	Fort McMurray	198	82-87
Suncor Inc.	Oilsands Plt Upgrade	Fort McMurray	169	82-84
Suncor/Worldwide En	In Situ Pilot Exp	Fort Kent	75	82-84
Syncrude Canada Ltd.	Oilsands Plt Expansion	Fort McMurray	1,068	84-87
Syncrude Canada Ltd.	Oilsands Debottleneck	Fort McMurray	172	83-85
Syncrude Canada Ltd.	Exp Oil Sands Plant	Fort McMurray	194	83-87
Texaco Canada Ltd.	D3 Miscible Flood	Wizard Lake	17	84-85
Union Carbide Canada	Air Sep Plt Oxy/Nitro	Prentiss	54	81-84
United International	Oilsands Pilot Plant	Fort McMurray	36	85-87
Vikor Resources Ltd	CO2 EOR Project	Joffre	23	83-88

continued

Sponsor	Project Description	Location	Cost	Construction Period
Westmin Resources	Steam Injection Proj	Lindberg	87	84-89
Total Edmonton Service Area			**$33,195**	
Total Alberta			$24,516	
Total Western Canada			$47,304	

Mining
(in millions of 1983 $)

Sponsor	Project Description	Location	Cost	Construction Period
Fording Coal Ltd.	3 Mtpy Coal Mine	Genessee	$160	85-89
Dentherm Resources	5 Mtpy Coal Mine	Robb	393	84-87
Esso Resources	2-3 Mtpy Coal Mine	Hinton	187	89-92
Manalta Coal	4.2 Mtpy Coal Mine	McLeod R.	322	84-86
Manalta Coal	2.2 Mtpy Coal Mine	Mercoal	252	84-87
Manalta Coal	Coal Mine	Sheerness	262	79-84
Manalta Coal	Coal Mine	Sheerness	262	79-84
Union Oil	3 Mtpy Coal Mine	Obed Marsh	300	82-84
Manalta Coal	Dragline #4	Highvale	60	82-84
Crowsnest Resources	1.5 Mtpy Coal Mine	Robb	262	88-91
Esso Resources	Coal Mine	Judy Creek	262	90-94
Manalta Coal	2.1 Mtpy Coal Mine	Gregg Riv	213	81-84
Cyprus Anvil Mines	Overburden stripping	Faro	70	83-85
Amax	Tungsten Mine	Mactung	215	84-87
Giant Yellowknife	Salmita Gold	Yellowknife Reg	30	83-85
Total Edmonton Service Area			**$2,988**	
Total Alberta			$2,988	
Total Western Canada			$15,969	

Transportation
(in millions of 1983 $)

Sponsor	Project Description	Location	Cost	Construction Period
Alberta Government	High Speed Rail Sys	Edm/Cal	$640	87-90
City of Edmonton	LRT Corona-University	Edmonton	112	83-86
Canadian Nat Railway	Double Track	Duffld/Valemt	409	81-85
Alberta Monorail Ltd	50 Mile Monorail	Edson/Coal Valley	93	84-96
Alberta Government	Twin Yellowhead Hwy	Lloyd/Jasper	138	83-88
Transport Canada	Air Terminal Expans	Fort McMurray	25	82-84
Canadian Nat Railway	Yard Expansion	Edmonton	65	79-84
Foothills Pipe Yukon	Foothills Gas Pipeline	Yuk/BC/Alta	11,049	86-90
Interprovincial Pipel	Oil Pipeline	Wells/Zama	432	83-85
Esso/Gulf/Dome	1920KM Oil Pipeline	Beaufort Zama	2,481	85-89
Nova, An Alta Corp.	Gas Transmission	Various	545	84-90
Foothills Pipe Yukon	Demster Line	Yukon	2,229	89-92
Total Edmonton Service Area			**$18,218**	
Total Alberta			$4,713	
Total Western Canada			$29,373	

Other Industrial Projects in Edmonton Service Area
(in millions of 1983 $)

Sponsor	Project Description	Location	Cost	Construction Period
Alberta Environment	Dickson Dam	Red Deer Area	$151	82-84
Chem Security Ltd	Hazard Waste Incin Pl	Unknown	53	84-87
Dome Petroleum Ltd	Floating Refinery	Beaufort Sea	155	85-87
City of Edmonton	Hot Water Heating Sys	Edmonton	145	85-90
Bow Valley Industries	Mobile Arctic Drill Isl	Beaufort Sea	92	84-86
Total Edmonton Service Area			**$596**	

Source: Dalcor Innoventures Ltd., "Capital Project Inventory Edmonton Service Area November 17, 1983".

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